



Microzonificación Sísmica y Efectos de Sitio - Bibliografía

Bibliografía específica recomendada

- AKI, Keiiti (1988): "Local site effects on strong ground motion in Earthquake Eng. Soil Dynamics II, recent advances in ground motion evaluation". Am. Soc. Civil Eng/Geotechnical Special Publication 20, 103-155.
- ANSAL A. 2004. Recent Advances in Earthquake Geotechnical Engineering and Microzonation. Springer Science & Business Media, 1/1/2004 - 354 pp.
- CHU, J., WARDANI, S. P.R., IIZUKA, A.(Eds.) 2013. Geotechnical Predictions and Practice in Dealing with Geohazards. Springer. 394 pág.
- FEMA HAZUS (2003) Multi-hazard Loss Estimation Methodology. HAZUS. User Manual,
- IRIKURA, KUDO, OKADA AND SASANATI (EDS). 1998. The effects of surface geology on seismic motion. Ed. Balkema. Rotterdam.
- KOBAYASHI H. 2006. Seismic Microzoning for Urban Planning. Journal of Disaster Research, Vol.1, No.2, pp. 211-225, 2006
- LEE, W. H.K.; H. KANAMORI, P. JENNINGS, C. KISSLINGER (2003).- International Handbook of Earthquake and Engineering Seismology. Academic Press.
- NCSE-02 (2002). Normativa de Construcción Sismorresistente Española de 2002. Real Decreto B.O.E. de agosto de 2002.
- ROCA, A., OLIVEIRA, C. (Eds.) . Earthquake Microzoning. Springer. 368 pág.
- REITER, L (1991).- Earthquake Hazard Analysis. Columbia University Press
- ROMEO R.W., BISICCIA C. 2006. Risk-oriented seismic microzoning study of an urban settlement. Soil Dynamics and Earthquake Engineering 26 (2006) 899-908
- TANAKA A. 1987. A Research on Seismic Microzoning by Using Short-period Microtremors. 1987 - 182 pp.

Lecturas

- ALGUACIL G., F. VIDAL , M. NAVARRO, A. GARCÍA-JEREZ , J. PÉREZ-MUELAS (2014). Characterization of earthquake shaking severity in the town of Lorca during the May 11, 2011 event. Bulletin of Earthquake Engineering.V 12, pp 1889-1908,
- BARD, P-Y. (1995): "Effects of surface geology on ground motion: recent results and remaining issues ". Proc. 10th European Conference on Earthquake Engineering, Vienna, Austria.
- BENITO M.B., M. NAVARRO, F. VIDAL, J. GASPAR-ESCRIBANO, M J. GARCÍA, JM MARTÍNEZ-SOLARES (2010). A New Seismic Hazard Assessment in the Region of Andalusia (Southern Spain). Bulletin of Earthquake Engineering V 8, I 4 pp. 739-766
- BOATWRIGHT, J.; FLETCHER, J.B.; FUMAL, T.E. (1991): "A general inversion scheme for source, site, and propagation characteristics using multiply recorded sets of moderate-sized earthquakes". Bull. Seismol. Soc. Am., 81, 1752-1782.
- BORCHERDT, R.D., 1970. Effects of local geology on ground motion near San Francisco Bay, Bull. Seism. Soc. Am., 60: 29-61.
- BORCHERDT, R. AND GLASSMOYER, G., 1992. On the characteristics of local geology and their influence on the ground motions generated by the Loma Prieta earthquake in the San Francisco bay region, California, Bull. Seism. Soc. Am., 82:603-641.
- BORCHERDT, R.D. (1994): "Estimates of site-dependent response spectra for design (methodology and justification)". Earthquake Spectra, 10, 617-673.
- BOORE, D. M., AND G. M. ATKINSON (2008), Ground-motion prediction equations for the average horizontal component of PGA, PGV, and 5%-Damped PSA at spectral periods between 0.01s and 10.0s, Earthquake Spectra, 24(1), 99-138
- CHÁVEZ F., LERMO J., (1994) "Are microtremors useful in site response evaluation?", Bull. Seismol. Soc. Am., Vol 84.
- FINN, W.D.L. (1991) Geotechnical Engineering Aspects of Microzonation, Proc. 4th International Conference on Seismic Zonation, (1):199-259
- GARCÍA-JEREZ, A., F. LUZÓN, M. NAVARRO, J.A. PÉREZ-RUIZ (2006). Characterization of the Sedimentary Cover of the Zafarraya Basin, Southern Spain, by Jeans of Ambient Noise. Bull. Seismol. Soc. Am., Vol. 96, No. 3, pp. 957-967.
- GARCÍA-JEREZ, A., M. NAVARRO, F.J. ALCALÁ, F. LUZÓN, J.A. PÉREZ-RUIZ, T.

- ENOMOTO, F. VIDAL, E. OCAÑA (2007). Shallow Velocity Structure Using Joint Inversion of Array and H/V Spectral Ratio of Ambient Noise: The Case of Mula Town (SE Spain). *Soil Dynamics and Earthquake Engineering*, Vol. 27, pp. 907-919.
- GARCÍA-JEREZ, A., F. LUZÓN AND M. NAVARRO (2008). Determination of the elastic properties and the depth of shallow sedimentary deposits applying a spatial autocorrelation method. *Geomorphology*, 93, pp. 74-88.
 - GASPAR-ESCRIBANO, J., NAVARRO, M., BENITO, B., GARCÍA-JEREZ, A., VIDAL, F (2010). From Regional- to Local-Scale Seismic Hazard Assessment: Examples from Southern Spain. *Bulletin of Earthquake Engineering*. Vol. 8, pp. 1547-1567.
 - GELI, L.; BARD, P-Y.; JULLIEN, B. (1988): "The effect of topography on earthquake ground motion: a review and new results". *Bull. Seismol. Soc. Am.*, 78, pp.42-63.
 - HARTZELL, S.H. (1992): "Site response estimation from earthquake data". *Bull. Seismol. Soc. Am.*, 82, pp. 2308-2327.
 - HORIKE, M., ZHAO, B. AND KAWASE, H., 2001. Comparison of site response characteristics inferred from microtremors and earthquake shear wave, *Bull. Seism. Soc. Am.*, 91:1526 1536.
 - IBS-VON SETH, M., AND WOHLBERG, J., 1999. Microtremor measurements used to map thickness of soft sediments, *Bull. Seismol. Soc. Am.*, 89:250-259.
 - KAGAMI, H., DUKE, C.M., LIANG, G.C. AND OHTA, Y., 1982. Observation of 1- to 5-second microtremors and their application to earthquake engineering, Part II: Evaluation of site effect upon seismic wave amplification deep soil deposits, *Bull. Seismol. Soc. Am.*, 72:987 998.
 - KAGAMI, H., OKADA, S., SHIONO, K., ONER, M., DRAVINSKI, M., AND MAL, A.K., 1986. Observation of 1- to 5-second microtremors and their application to earthquake engineering, Part III: A two dimensional study of site effects in the San Fernando Valley, *Bull. Seism. Soc. Am.*, 76:1801-1812.
 - KANAI, K. AND TANAKA, T., 1961. On microtremors VIII, *Bull. Earthquake Res. Inst.*, 39:97 114.
 - KATZ, L.J., 1976. Microtremor analysis of local geological conditions, *Bull. Seism. Soc. Am.*, 66:45-60.
 - KONNO, K. AND OHMACHI, T., 1998. Ground-motion characteristics estimated from spectral ratio between horizontal and vertical components of microtremors, *Bull. Seismol. Soc. Am.*, 88:228-241.
 - LERMO, J.F.; CHÁVEZ-GARCÍA, F.J. (1993): "Site effect evaluation using spectral ratios with only one station". *Bull. Seismol. Soc. Am.*, 83, pp. 1574-1594.
 - NAKAMURA, Y. (1989): "A method for dynamic characteristics estimations of

subsurface using microtremors on the ground surface". Quaterly Rept. RTRI, Jpn, 30, pp. 25-33.

- NAVARRO, M., F VIDAL, T. ENOMOTO, F.J. ALCALÁ, F.J. SÁNCHEZ AND N. ABEKI (2007). Analysis of site effects weightiness on RC building seismic response. The Adra (SE Spain) example. Earthquake Engineering and Structural Dynamics, Vol. 36: pp. 1363-1383.
- NAVARRO, M., A. GARCÍA-JEREZ, F. ALCALÁ, F. VIDAL, T. ENOMOTO (2014). Local site effect microzonation of Lorca town (southern Spain). Bulletin of Earthquake Engineering, Vol. 12, 5, pp.1933-1959. DOI 10.1007/s10518-013-9491-y.
- PAROLAI, S., BORMANN, P., AND MILKEREIT, C., 2002. New relationships between V_s , thickness of sediments, and resonance frequency calculated by H/V ratio of seismic noise for the Cologne Area (Germany), Bull. Seism. Soc. Am., 92 (6):2521-2527.
- REINOSO, E. AND ORDAZ, M., 1999. Spectral amplification for Mexico City from free-field recordings, Earthquake Spectra, 15(2):273-295.
- RIEPL, J.; BARD, P-Y.; HATZFELD, D.; PAPAIOANNOU, C.; NECHTSCHHEIN, S. (1998): " Detailed evaluation of site-response estimation methods across and along the sedimentary valley of Volvi". Bull. Seismol. Soc. Am., 88, pp. 488-502.
- SEED, H.B.; MURARKA, R.; LYSMER, J. (1976a): "Relationships of maximum acceleration, maximum velocity, distance from source and local site conditions for moderately strong earthquakes". Bull. Seismol. Soc. Am., 66, pp. 1323-1342.
- TEVES-COSTA, P., MATIAS, L. AND BARD, P.Y., 1996. Seismic behaviour estimation of thin alluvium layers using microtremor recordings. Soil Dynamics & Earthquake Engineering, 15, 201-209.
- VALVERDE-PALACIOS I., F. VIDAL, I. VALVERDE-ESPINOSA, M. MARTÍN (2014). Simplified empirical method for predicting earthquake-induced settlements and its application to a large area in Spain. Engineering Geology, V 181, 58-70,
- VIDAL, F., MORALES, J. (1996). Mapas predictivos del movimiento del suelo en áreas urbanas para el desarrollo de Escenarios de Daños Sísmicos. Libro homenaje al prof. F. de Miguel. Instituto Andaluz de Geofísica. **Universidad de Granada**.
- VIDAL F., M. NAVARRO, C. ARANDA, T. ENOMOTO (2014). Changes in dynamic characteristics of Lorca RC buildings from pre- and post- earthquake ambient vibration data. Bulletin of Earthquake Engineering. V 12 pp 2095-2110.